

LINEAR POLARISED EMBEDDED GROUND ANTENNA

SlimLine - A5531-E

ABOUT TIMES-7

Pushing the boundaries of RFID technology worldwide Times-7 are leaders in RFID antenna design and manufacture. Our patented award winning UHF antennas meet the needs of virtually any industry application; providing customers with fast accurate tracking of products, assets & people; empowering organisations to transform processes & reduce costs.

Our SlimLine range of antennas are unique in the RFID industry; offering high levels of performance & durability in an aesthetically superior form.

Proven in a diverse & growing range of markets, applications include: retail & customer interaction, conference & people tracking, race timing, baggage handling, and logistic & supply chain asset management.

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The A5531-E Embedded Ground Antenna

Uniquely optimised for the industrial workplace, the A5531-E is a high performance, extremely durable antenna that can be embedded in a concrete floor. The A5531-E offers an ultra-low profile UHF antenna solution for RFID applications which benefit from assets being read from beneath, rather than from traditional side antennas.

At just 20 mm / 0.8 in. thick, the A5531-E offers seamless and easy installation with no change in business workflow required making this unique embedded ground antenna the right choice for high performance industrial RFID deployments in a challenging environment.

Ultra-low profile, highly durable ground antenna

Can be embedded in concrete & withstand extremely high pressure loads

Just 20 mm / 0.8 in. thick

Ideal for industrial asset tracking applications

Specifications

Physical / Environmental Specifications

Dimensions (LxWxD):	1260 mm x 255 mm x 20 mm 50 in. x 10 in. x 0.8 in.
Weight:	8.4 kg / 18.5 lbs.
Radome Material:	Glass Fiber reinforced composite housing
Environmental Rating:	IP68 @ 10 m depth
Compressive Strength:	25 Mpa (255 kg / cm ²)
Coefficient of Friction (Anti-slip):	> 0.6 COF
Operating / Storage Temperature:	-15° to +50°C / -30° to +60°C +5° to +122°F / -22° to +140°F
Connector type / position:	RP TNC
Cable length:	2 m (included)

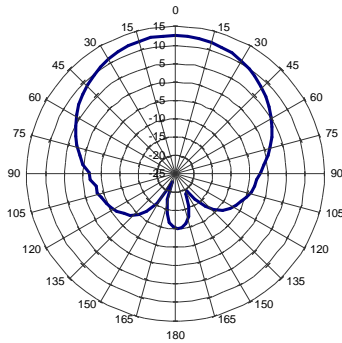
Electrical Specifications

Frequency Range:	864 – 869 MHz / 902 – 928 MHz
Polarisation:	Linear
Far-field Gain:	10dBi
Far-field 3dB beamwidth:	70° in XZ, 25° in YZ
Typical VSWR across frequency range:	< 2.0:1
Front to back ratio:	20dB
Nominal Impedance:	50 Ω
Anti-static protection:	Yes
Maximum Input Power:	6 W

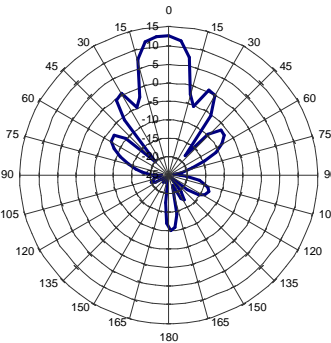
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SlimLine - A5531-E

E-field elevation & Azimuth Patterns



XZ-plane



YZ-plane

Ordering Information (please quote both product code & part no.)

Product Code	Band	Part No.
A5531-E	ETSI 864-869 MHz	71503
A5531-E	FCC 902-928 MHz	71521

Applications

- Industrial asset tracking & management
- Returnable transport items (RTI's)
- Track & trace (Cold chain / Horticulture / Food safety)



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